INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP03/13389

		PC1/0P03/13389
A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁷ F16F15/16, B30B15/06, B2	3Q1/16	
According to International Patent Classification (IPC) or to both	national classification and IPC	
B. FIELDS SEARCHED		
Minimum documentation searched (classification system follow Int.Cl ⁷ F16F15/16, B30B15/06, B2	ed by classification symbols) 3Q1/16	
Documentation searched other than minimum documentation to Jitsuyo Shinan Koho 1922-199	the extent that such documents ar 5 Jitsuyo Shinan Toro	e included in the fields searched
Kokai Jitsuyo Shinan Koho 1971-200	4 Toroku Jitsuyo Shir	nan Koho 1994-2004
Electronic data base consulted during the international search (n	ame of data base and, where pract	icable, search terms used)
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category* Citation of document, with indication, where		ges Relevant to claim No.
& IT 94840855 A	R 160532 B	1-5
Y US 5544577 A (SANKYO SEISAK 13 August, 1996 (13.08.96), Full text; Figs. 5 to 8 & JP 7-116898 A Full text; Figs. 5 to 8 & DE 4437957 A & K & IT 94840856 A	R 160534 B	1-5
Further documents are listed in the continuation of Box C.	See patent family annex.	
Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance earlier document but published on or after the international filing date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) document referring to an oral disclosure, use, exhibition or other means P' document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search 15 January, 2004 (15.01.04)	"T" later document published af priority date and not in conf understand the principle or document of particular relev considered novel or cannot be step when the document is to document of particular relev	ter the international filing date or lict with the application but cited to heory underlying the invention ance; the claimed invention cannot be see considered to involve an inventive aken alone ance; the claimed invention cannot be entive step when the document is other such documents, such to a person skilled in the art the patent family
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ategory*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
Y	JP 2001-277059 A (Canon Inc.), 09 October, 2001 (09.10.01), Full text; all drawings (Family: none)	4
Y	DE 2264974 A (FRIED KURUPP GMBH.), 09 October, 1975 (09.10.75), Full text; all drawings (Family: none)	1-5
A	EP 1083364 A (UNISIA JECS CORP.), 14 March, 2001 (14.03.01), Figs. 1 to 3 & JP 2000-283236 A Figs. 1 to 3 & WO 00/58643 A	1,5